**Geology Majors must take the following Geology courses:**

GEOL 1121 Physical Geology (4 cr)

GEOL 1122 Historical Geology (4 cr)

GEOL 3004 Field Geology and Geologic Mapping (4 cr)

GEOL 3014 Mineralogy and Crystallography (4 cr)

GEOL 3024 Igneous & Metamrphc Petrology (4 cr)

GEOL 3034 Structural Geology (4 cr)

GEOL 3042 Optical Mineralogy (2 cr)

GEOL 3053 Sedimentary Petrology (3 cr)

GEOL 4024 Paleontology (4 cr)

GEOL 4501 Seminar (1 cr)

GEOL 4082 Independent Research (1 cr)

GEOL 4084 Hydrogeology (4 cr)

GEOL 4604 Economic Geology (4 cr)

**Geology majors must also take the following related courses:**

MATH 1113 Precalculus (4 cr) or higher level math

CHEM 1121 Principles of Chemistry I (4 cr)

**Depending on individual interests and aspirations Geology majors will also take some combination of the following:**

GEOL 2002 Applied Computing for Geoscncs (2 cr.)

GEOL 3603 Environmental Geology (3 cr)

GEOL 4003 Geomorphology (3 cr)

GEOL 4014 Geochemistry (4 cr)

GEOL 4033 Stratigraphy and Geochronology (3 cr)

GEOL 4044 Engineering Geology (4 cr)

GEOL 4063 Plate Tectonics (3 cr)

GEOL 4083 Environmental Geochemistry (3 cr)

GEOG 2553 Intro to GIS and Mapping Science (3 cr)

GEOG 4103 Geography of Soils and Water (3 cr)

GEOG 4400 Energy and Sustainability (3 cr)

GEOG 4553 Geographic Information System (4 cr)

GEOG 4554 Computer Cartography (4 cr)

MATH 2063 Introductory Statistics (3 cr)

MATH 1634 Calculus I (4 cr)

MATH 2644 Calculus II (4 cr)

BIOL 1107 Principles of Biology (4 cr)